

What is claimed is:

1. A computer-implemented method for generating a transformation document, comprising:  
analyzing a target document; and  
5 automatically generating, based at least upon said target document, a transformation document, said transformation document capable of being processed in conjunction with a source document to transform said source document into a result document.

10 2. The method of claim 1, wherein said target and source documents are XML (eXtensible Markup Language) documents.

3. The method of claim 1, wherein said transformation document is an XSLT (eXtensible Stylesheet Language Transformation) document.

15 4. The method of claim 1, wherein said target document comprises a particular data structure pattern, and wherein automatically generating said transformation document comprises:

inserting a template comprising one or more actions into said transformation document, said template causing said particular data structure pattern to be created in said result document when a particular triggering data structure pattern is encountered during processing of said transformation document.

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5. The method of claim 1, wherein said target and source documents both comprise a particular data structure pattern, and wherein automatically generating said transformation document comprises:

inserting a template into said transformation document, said template comprising  
5 a copy action, said template causing said particular data structure pattern to be copied into said result document when said particular data structure pattern is encountered during processing of said transformation document.

6. The method of claim 1, wherein analyzing said target document  
10 comprises:

compiling a list of data structure patterns that occur in said target document.

7. The method of claim 6, wherein automatically generating said transformation document comprises:

15 selecting a particular data structure pattern from said list; and

inserting a template comprising one or more actions into said transformation document, said template causing said particular data structure pattern to be created in said result document when a particular triggering data structure pattern is encountered during processing of said transformation document.

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8. The method of claim 6, wherein automatically generating said transformation document comprises:

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for each particular data structure pattern in said list, inserting a template comprising one or more actions into said transformation document, said template causing said particular data structure pattern to be created in said result document when a particular triggering data structure pattern is encountered during processing of said transformation document.

9. The method of claim 1, further comprising:

analyzing said source document;

wherein analyzing said source document comprises:

compiling a first list of data structure patterns that occur in said source document; and

wherein analyzing said target document comprises:

compiling a second list of data structure patterns that occur in said target document.

10. The method of claim 9, wherein automatically generating said

transformation document comprises:

determining whether any data structure pattern on said first list is identical to a data structure pattern on said second list; and

in response to a determination that a particular data structure pattern on said first list is identical to a data structure pattern on said second list, inserting a template into said transformation document, said template comprising a copy action, said template causing said particular data structure pattern to be copied into said result document when said

particular data structure pattern is encountered during processing of said transformation document.

11. The method of claim 1, further comprising:

5 processing said transformation document in conjunction with a third document to derive a transformed document, wherein said third document is a different document from said source document.

12. The method of claim 11, wherein said source document is of a particular type, and wherein said third document is of the same particular type.

13. A computer readable medium comprising instructions which, when executed by one or more processors, cause the one or more processors to generate a transformation document, said computer readable medium comprising:

15 instructions for causing one or more processors to analyze a target document; and instructions for causing one or more processors to automatically generate, based at least upon said target document, a transformation document, said transformation document capable of being processed in conjunction with a source document to transform said source document into a result document.

20 14. The computer readable medium of claim 13, wherein said target and source documents are XML (eXtensible Markup Language) documents.

15. The computer readable medium of claim 13, wherein said transformation document is an XSLT (eXtensible Stylesheet Language Transformation) document.

16. The computer readable medium of claim 13, wherein said target document  
5 comprises a particular data structure pattern, and wherein said instructions for causing one or more processors to automatically generate said transformation document comprises:

instructions for causing one or more processors to insert a template comprising one or more actions into said transformation document, said template causing said  
10 particular data structure pattern to be created in said result document when a particular triggering data structure pattern is encountered during processing of said transformation document.

17. The computer readable medium of claim 13, wherein said target and  
15 source documents both comprise a particular data structure pattern, and wherein said instructions for causing one or more processors to automatically generate said transformation document comprises:

instructions for causing one or more processors to insert a template into said transformation document, said template comprising a copy action, said template causing  
20 said particular data structure pattern to be copied into said result document when said particular data structure pattern is encountered during processing of said transformation document.

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18. The computer readable medium of claim 13, wherein said instructions for causing one or more processors to analyze said target document comprises:

instructions for causing one or more processors to compile a list of data structure patterns that occur in said target document.

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19. The computer readable medium of claim 18, wherein said instructions for causing one or more processors to automatically generate said transformation document comprises:

instructions for causing one or more processors to select a particular data structure  
10 pattern from said list; and

instructions for causing one or more processors to insert a template comprising  
one or more actions into said transformation document, said template causing said  
particular data structure pattern to be created in said result document when a particular  
triggering data structure pattern is encountered during processing of said transformation  
15 document.

20. The computer readable medium of claim 18, wherein said instructions for causing one or more processors to automatically generate said transformation document comprises:

20 instructions for causing one or more processors to insert, for each particular data structure pattern in said list, a template comprising one or more actions into said transformation document, said template causing said particular data structure pattern to be

created in said result document when a particular triggering data structure pattern is encountered during processing of said transformation document.

21. The computer readable medium of claim 13, further comprising:

instructions for causing one or more processors to analyze said source document;  
wherein said instructions for causing one or more processors to analyze said source document comprises:

instructions for causing one or more processors to compile a first list of data structure patterns that occur in said source document; and  
wherein said instructions for causing one or more processors to analyze said target document comprises:

instructions for causing one or more processors to compile a second list of data structure patterns that occur in said target document.

22. The computer readable medium of claim 21, wherein said instructions for causing one or more processors to automatically generate said transformation document comprises:

instructions for causing one or more processors to determine whether any data structure pattern on said first list is identical to a data structure pattern on said second list;

and

instructions for causing one or more processors to insert, in response to a determination that a particular data structure pattern on said first list is identical to a data structure on said second list, a template into said transformation document, said template

comprising a copy action, said template causing said particular data structure pattern to be copied into said result document when said particular data structure pattern is encountered during processing of said transformation document.

5           23.     The computer readable medium of claim 13, further comprising:  
instructions for causing one or more processors to process said transformation document in conjunction with a third document to derive a transformed document, wherein said third document is a different document from said source document.

10           24.     The computer readable medium of claim 23, wherein said source document is of a particular type, and wherein said third document is of the same particular type.

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